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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/030,420		01/10/2002	Kei Usui	2001-1862A	2001-1862A 8785	
513	7590	04/06/2004		EXAM	EXAMINER	
WENDEROTH, LIND & PONACK, L.L.P.				PHASGE,	PHASGE, ARUN S	
2033 K STF	REET N. W	٧.				
SUITE 800				ART UNIT	PAPER NUMBER	
WASHINGTON DC 20006-1021				1753		

DATE MAILED: 04/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	F				
	10/030,420	USUI, KEI					
Office Action Summary	Examiner	Art Unit					
omoo nouen cumminy	Arun S. Phasge	1753					
The MAILING DATE of this communication							
Period for Reply	•	,					
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 Clafter SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory properties to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a on. a reply within the statutory minimum of the oriod will apply and will expire SIX (6) MC statute, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. DNTHS from the mailing date of this communic ABANDONED (35 U.S.C. § 133).	cation.				
Status							
1) Responsive to communication(s) filed on	14 January 2004.						
, 							
·							
Disposition of Claims							
4) Claim(s) 1-3 is/are pending in the applicate 4a) Of the above claim(s) is/are wit 5) Claim(s) is/are allowed. 6) Claim(s) 1-3 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction at a subject	hdrawn from consideration. and/or election requirement. aminer. accepted or b) □ objected to the drawing(s) be held in abey	ance. See 37 CFR 1.85(a).	I21(d).				
11) The oath or declaration is objected to by t							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International B * See the attached detailed Office action for	ments have been received. ments have been received in e priority documents have been Bureau (PCT Rule 17.2(a)).	Application No en received in this National Stag	e				
Attachment(s)	»П						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-943) Information Disclosure Statement(s) (PTO-1449 or PTO/9449) 	Paper N	v Summary (PTO-413) o(s)/Mail Date of Informal Patent Application (PTO-152) 					

DETAILED ACTION

Claim Rejections - 35 USC \$ 112

The terms "elevated temperature or reduced pressure" in claim 3 are relative terms, which renders the claim indefinite. The term "elevated or reduced" are not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. Accordingly, the claim is rejected for being indefinite.

Claim Rejections - 35 USC \$ 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-2 and new claim 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Reznik in view of the Japanese patent to Kawasaki of record for reasons of record.

The Reznik patent does disclose that the ceramic does absorb the hydrogen (see column 6, lines 42-48). The water flowing past the fluid releases the hydrogen on contact to activate the water (see column 6, lines 49-52).

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Furthermore, the water flowing past the ceramic tube would produce a reduced pressure to release the hydrogen.

Accordingly, the invention as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the disclosure of the Reznik patent with the teachings of the Japanese reference, because the Japanese patent teaches that palladium is conventionally used in the art to provide hydrogen to activate water.

Response to Arguments

Applicant's arguments filed 1/14/04 have been fully considered but they are not persuasive. Applicants argue that the Japanese patent does not disclose the impregnation of the alloy with hydrogen before contacting with water.

The machine translation of the Japanese patent clearly renders the above argument untenable. The claim recites that the hydrogen gas sticks to the face of the material and is removed by vibration or electrical energy to react with the oxidants in the water (see claim).

Consequently, the claims stand rejected.

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Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arun 5. Phasge whose telephone number is (571) 272-1345. The examiner can normally be reached on MONDAY-THURSDAY, 7:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam X Nguyen can be reached on (571) 272-1342. The fax

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phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Arun S. Phasge Primary Examiner Art Unit 1753